

# इंटरनेट

# मानक

## Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 5000-OD19 (1974): Dimensions of Semiconductor Devices,  
Device Outline OD19 [LITD 5: Semiconductor and Other  
Electronic Components and Devices]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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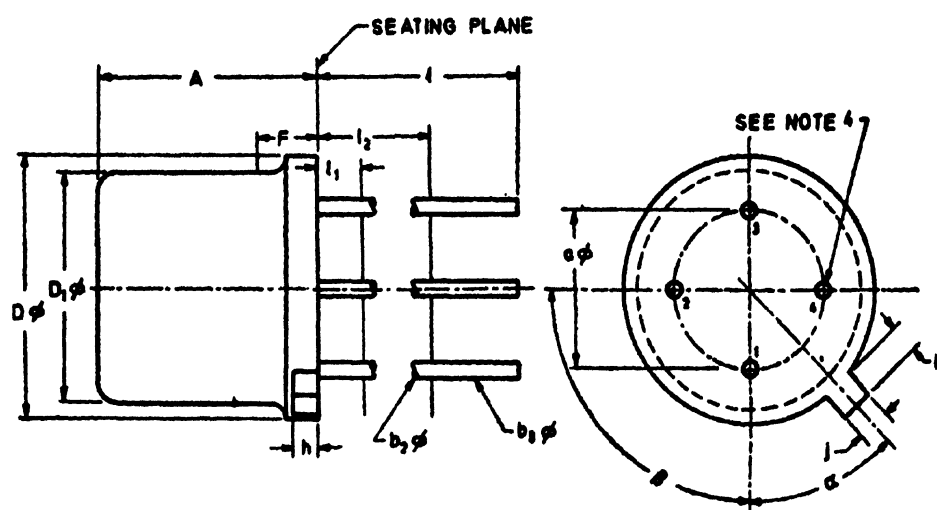


*Indian Standard***DIMENSIONS OF SEMICONDUCTOR DEVICES  
DEVICE OUTLINE OD19**

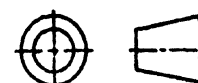
(Incorporating Amendment No. 1)

**1. Dimensions**

**Note** — This drawing has been prepared in accordance with IS : 5001 (Part I)-1969 'Guide for the preparation of drawings of semiconductor devices and integrated circuits: Part I Semiconductor devices' and IS : 5001 (Part II)-1973 'Guide for the preparation of drawings of semiconductor devices and integrated circuits: Part II Integrated circuits'.



Reference	Millimetres			Degrees	Note
	Min	Nom	Max		
A	See below				1
a	—	2.54*	—		
b <sub>2</sub>	0.407	—	0.508		
b <sub>3</sub>	—	—	0.53		
D	5.31	—	5.84		
D <sub>1</sub>	4.53	—	4.95		
F	—	—	1.01		
h	—	—	0.76		
J	0.92	1.04	1.16		
k	0.51	—	1.21		2
l	12.70	—	—		
l <sub>1</sub>	—	—	1.27		



Adopted 15 July 1974

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Price Group 1

**BUREAU OF INDIAN STANDARDS**  
**MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG**  
**NEW DELHI 110002**

IS : 5000 (OD19) - 1974

Reference	Millimetres			Degrees	Note
	<i>Min</i>	<i>Nom</i>	<i>Max</i>		
$l_2$	6.35	—	—		
$n$	<i>see below</i>				
$\alpha$	—	—	—	45	
$\beta$	—	—	—	90*	
*True geometrical position.					

Type	Number of Terminals ( $n$ )	Dimension 'A'		
		<i>Min</i>	<i>Nom</i>	<i>Max</i>
A	3	4.32	—	5.33
B	4			
C	3	1.65	—	2.16
D	4			

**Note 1** — The cross-section of each terminal at a distance  $l_1$ , *Max* from the seating plane lies in a circle having a diameter of 0.99 mm centred at the true geometrical position defining the terminal axis at its point of exit.

**Note 2** — Measured from the actual diameter  $D$  of the device.

**Note 3** — See also IS : 5000 (OB4)-1969 'Dimensions of semiconductor devices: Base outline OB4' and IS : 5000 (OC3)-1969. 'Dimensions of semiconductor devices: Case outline OC3'

**Note 4** — Terminal 4 is applicable to Type B variant only.

2. Rules for Coding — See 8.1 of IS : 5001 (Part I)-1969.

3. Equivalent Designation Code Followed by Other Countries and Organizations

Country or Organization	Designation Code			
	Type A	Type B	Type C	Type D
India	OD 19 A	OD 19 B	OD 19 C	OD 19 D
IEC	—	—	—	—
USA	To — 18	To — 72	To — 46	To — 46

EXPLANATORY NOTE

This edition 1.1 incorporates Amendment No. 1 (December 1979). Side bar indicates modification of the text as the result of incorporation of the amendment.